SERVICE MANUAL SR140/SR140L

marantz®

model SR140/SR140L

Stereophonic Receiver

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound. Only **original MARANTZ parts** can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:
Parts can be ordered either by mail or by telex. In both cases, MARANTZ part number has to be specified. If you order by mail, fulfil MARANTZ order forms.

MARANTZ S.A.
EUROPEAN PARTS DEPARTMENT
2, Avenue Léopold III
B-7120 PERONNES-lez-BINCHE
BELGIUM
TWX: 57589 SEPLT B

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

PARTS ORDERING:
Parts may be ordered from the following addresses:

EUROPE

MARANTZ S.A.
326 Avenue Louise Bte 32
1050 Bruxelles
Belgium

MARANTZ AUDIO U.K. LTD
Unit 15/16
Saxon Way Industrial Estate
Moor Lane
Harmondsworth UB7 OLW
Great Britain

MARANTZ AUSTRALIA PTY
19 Chard Road
Brookvale, NSW 2100
Australia

MARANTZ AUSTRIA Ge.M.B.H.
25 Franz Lisztgasse
2380 Perchtoldsdorf
Austria

MARANTZ BELGIUM
45 Rue Auguste Van Zande
1080 Brussels
Belgium

MARANTZ DENMARK
Bregnerødvej 132b
3460 Birkerød
Denmark

MARANTZ FRANCE
4 Rue Bernard Palissy
92600 Asnières
France

MARANTZ GERMANY G.M.B.H.
Max Planckstrasse 22
6072 Dreieich 1
Germany

MARANTZ ITALIANA S.p.A.
Via Monte Napoleone 10
20121 Milano
Italy

MARANTZ NEDERLAND B.V.
Wagenmakersweg 3
3449 HV Woerden
Netherlands

MARANTZ SVENSKA A.B.
Svartviksvägen 56
Träneberg
Bromma
Sweden

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

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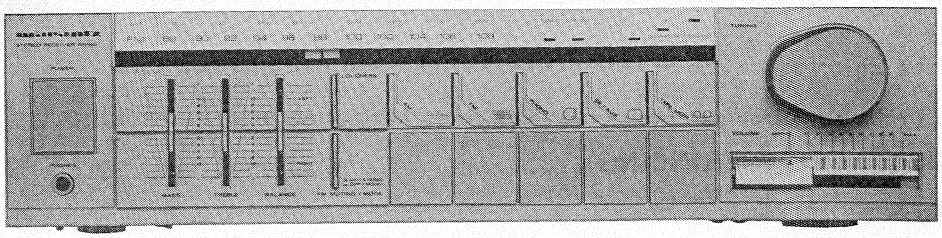
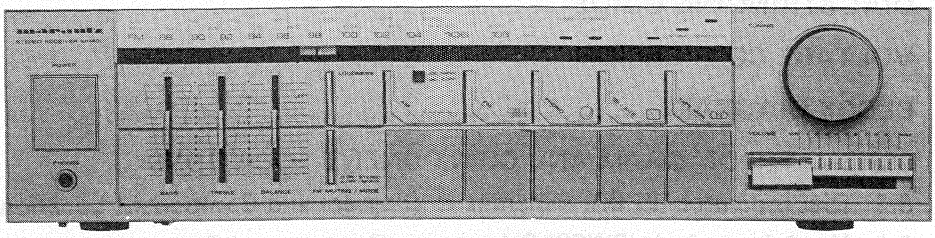
MODEL SR140/SR140L STEREOPHONIC RECEIVER



SR140



SR140L

INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model SR140/SR140L Stereophonic Receiver. Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operations.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram, the chassis of Model SR140/SR140L consists of the following units. Each unit mounted on a printed P.W. boards is described within the square enclosed by a bold dotted line on the circuit diagram.

1. Dial Indicator . . . . . mounted on P.W. Board PZ00
2. Headphone Jack . . . . . mounted on P.W. Board PW00
3. Lamp . . . . . mounted on P.W. Board PY00
4. Signal Meter . . . . . mounted on P.W. Board PX50
5. Power Switch . . . . . mounted on P.W. Board PU00
6. Tone Control . . . . . mounted on P.W. Board PE00
7. Tuner/Main . . . . . mounted on P.W. Board P100
8. Volume . . . . . mounted on P.W. Board PV00

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model SR140/SR140L Stereophonic Receiver.

Item	Use
AM Signal Generator	Signal source for AM alignment
Test Loop	Use with AM Signal Generator
FM Signal Generator	Signal source for FM alignment
MPX Signal Generator	Stereo separation alignment and trouble shooting
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
AC VTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis trouble shooting
Frequency Counter	MPX Oscillator adjustment (VCO)
Circuit Tester	Truble shooting
DC VTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to tuner
Line Voltmeter	Monitors potential of primary power to tuner
Variable Autotransformer	Adjusts level of primary power to tuner

3. ALIGNMENT PROCEDURES

A dummy resistor of 47 kohms must be connected across the tuner output terminals before alignment.

3.1 FM Alignment Procedures (Selector switch in the "FM" position)

FM RF Alignment

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	RF generator to FM Antenna terminals through matching network. (300 ohms balanced) (Maintain RF level below limit.)	87.4 MHz	VTVM to L or R channel output. (JS01)	87.4 MHz with tuning gang closed.	L103 for maximum output.
2		108.2 MHz		108.2 MHz with tuning gang open.	C118 for maximum output.
3		90.0 MHz		90 MHz	L101, L102 for maximum.
4		106.0 MHz		106 MHz	ANT. RF. TRIM. CAP. for maximum output.
5	Repeat steps 1 to 4.				
6	No connection	No signal	Center meter between TP201, TP202.	No signal	L201 primary core center tuning meter pointer indicates its center.
7	RF generator 1mV output to FM Antenna terminals through matching network. (300 ohms balanced)	98.0 MHz	Distortion meter to output. (JS01)	98 MHz	L201 secondary core for minimum distortion.

Multiplex Alignment Procedures (Selector switch in the "FM" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	RF generator to FM antenna terminals through matching network (300 ohms balanced), with 1 mV FM stereo signal modulation level. DIN 40 kHz +8% pilot.	No Modulation	Frequency counter to (TP301).	98 MHz	R302 so that Frequency counter may precisely read 19 kHz.
2		Stereo left (1,000 Hz)	VTVM to right channel output. (JS01–R)		R315 for same separation in both channels.
3		Stereo right (1,000 Hz)	VTVM to left channel output. (JS01–L)		
4	Repeat steps 2 and 3.				

3.2 AM Alignment Procedures

MW IF Alignment (Selector switch in the "MW" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	Sweep generator to AM antenna terminal.	450 kHz marker	Oscilloscope to RA RA04	Quiet point on band	LA03 and LA04 for maximum and synnetric responce.

MW RF Alignment (Selector switch in the "MW" position)

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	Apply the signal to the AM loop antenna from the RF generator using the test loop. (Figure 1)	525 kHz	VTVM to L or R channel output. (JS01)	525 kHz with tuning gang closed.	LA02 for maximum output.
2		1,630 kHz		1,630 kHz with tuning gang open.	OSC TRIM CAP. for maximum output.
3		600 kHz		600 kHz	LA01 for maximum output.
4		1,400 kHz		1,400 kHz	ANT. TRIM. CAP. for maximum output.
5	Repeat steps 1 to 4 as necessary to obtain maximum sensitivity.				

LW RF Alignment (Selector switch in the "LW" position) SR140L only.

Step	Signal Source Connection	Signal Frequency	Indicator Connection	Set Dial Pointer to:	Adjust:
1	Apply the signal to the AM loop antenna from the RF generator using the test loop. (Figure 1)	145 kHz	VTVM to L or R channel output. (JS01)	145 kHz with tuning gang closed.	LA06 for maximum output.
2		290 kHz		290 kHz with tuning gang open.	CA26 for maximum output.
3		170 kHz		170 kHz	LA05 for maximum output.
4		270 kHz		270 kHz	CA25 for maximum output.
5	Repeat steps 1 to 4 as necessary to obtain maximum sensitivity.				

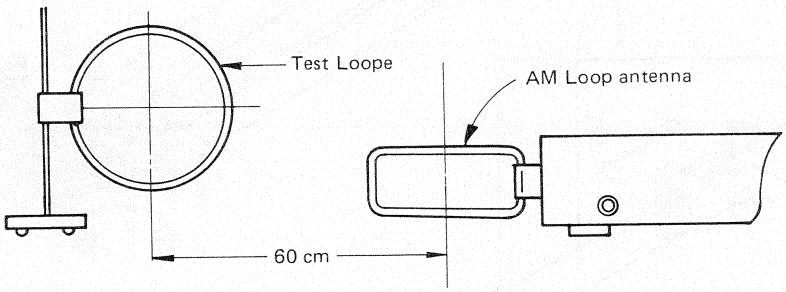
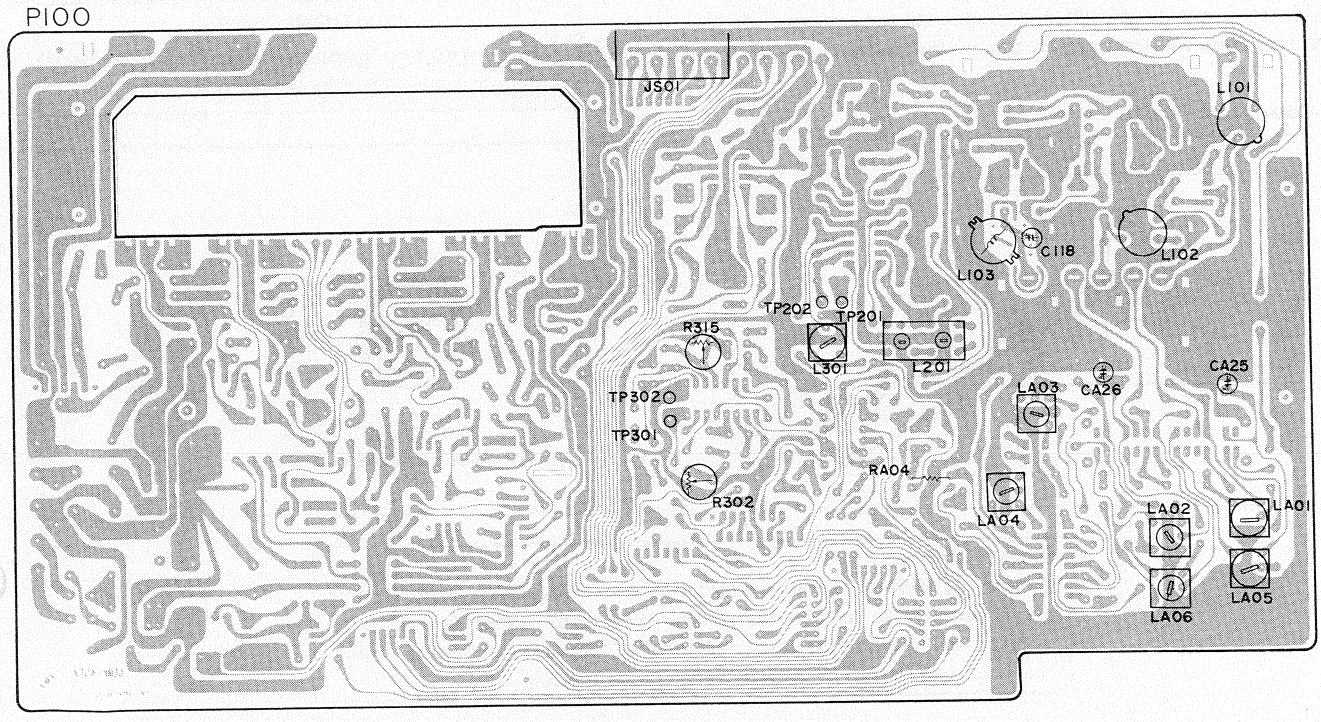


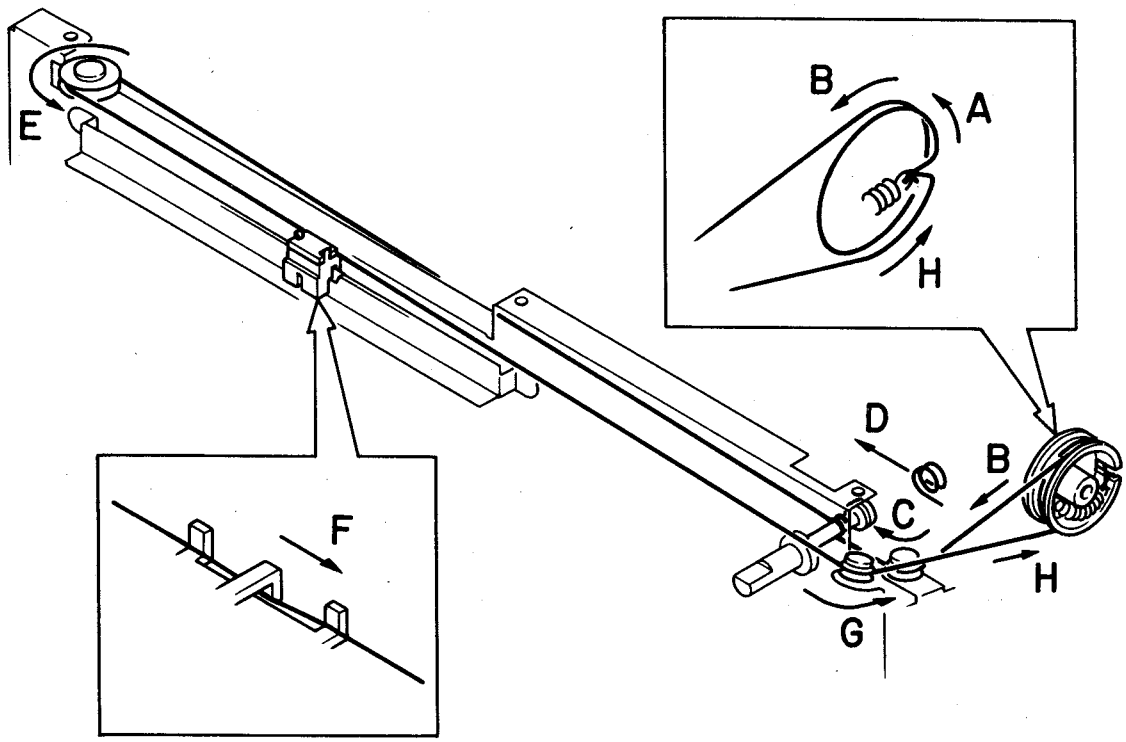
Figure 1. Application of AM Signal

4. ALIGNMENT POINTS



5. DIAL STRINGING GUIDE

Referring to the illustration, follow the steps in the order A to H.



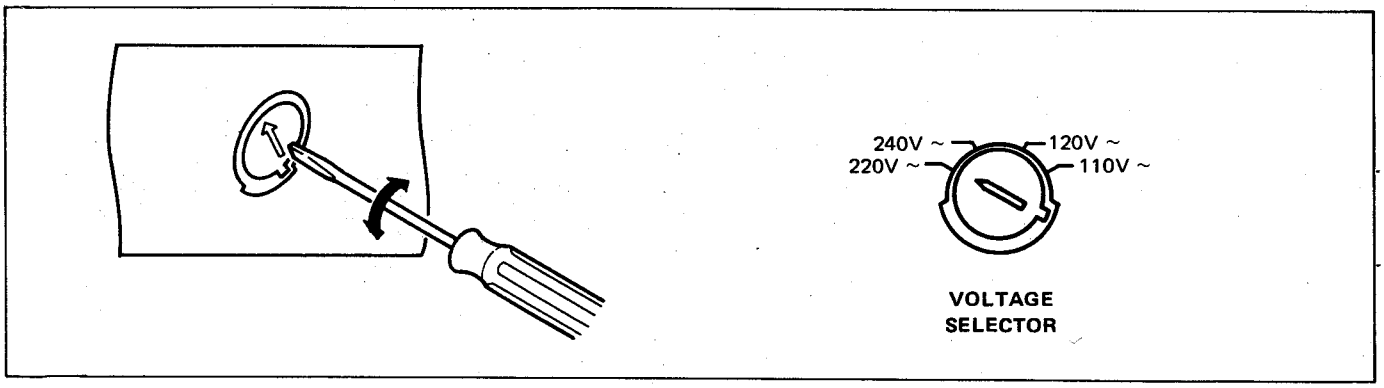
6. VOLTAGE CONVERSION

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

CAUTION

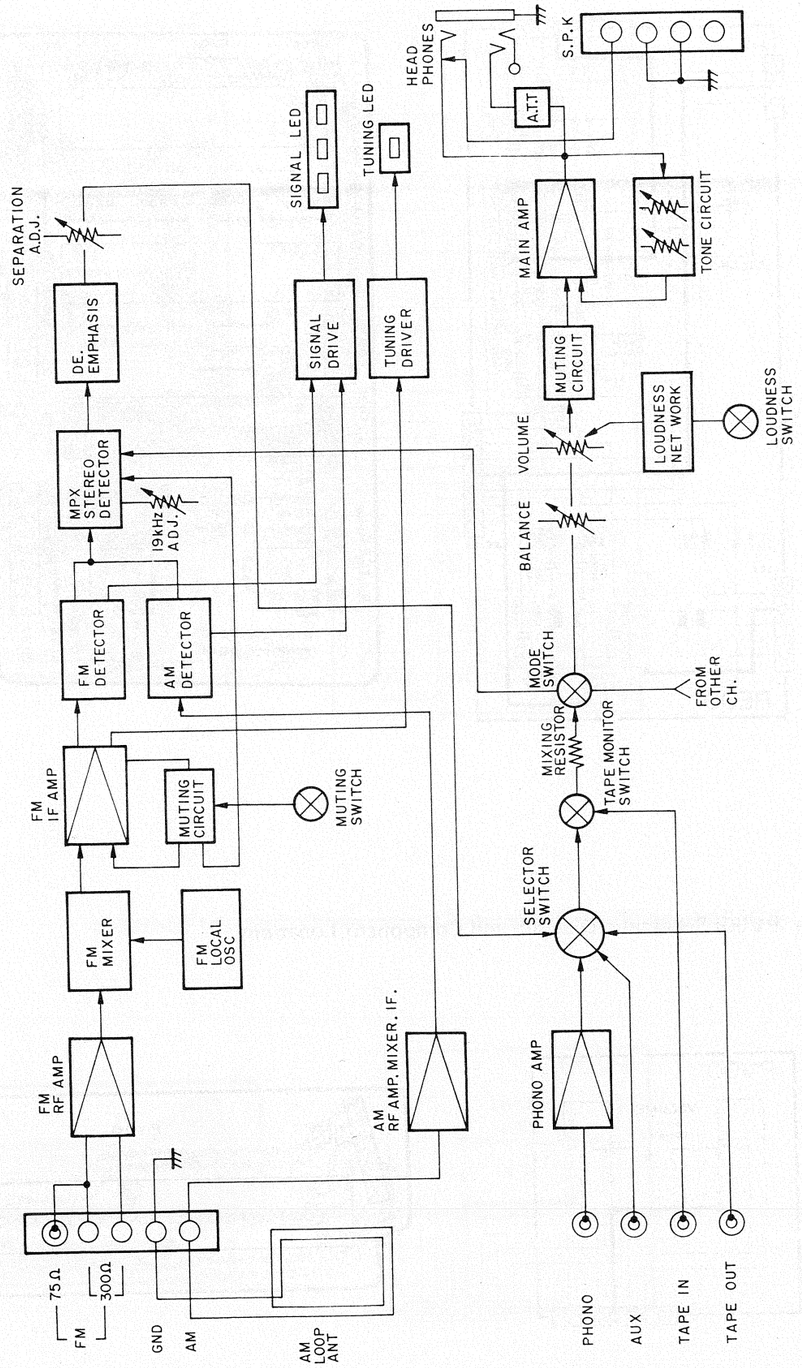
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart



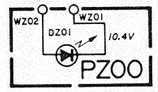
Note on safety:
Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

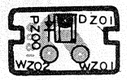
7. BLOCK DIAGRAM



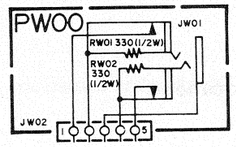
8. SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS

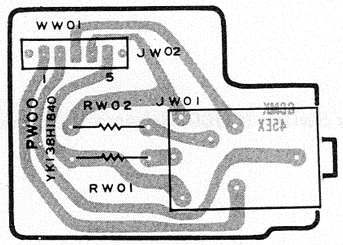
8.1 Dial Indicator (PZ00) Schematic Diagram and Component Locations



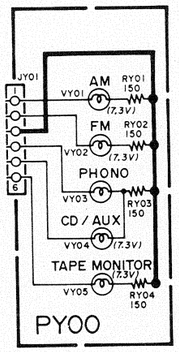


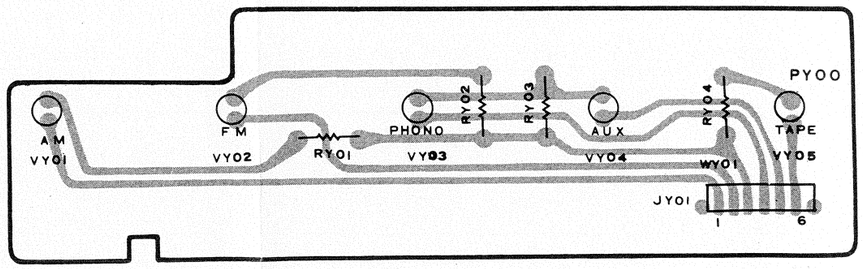
8.2 Headphone Jack (PW00) Schematic Diagram and Component Locations



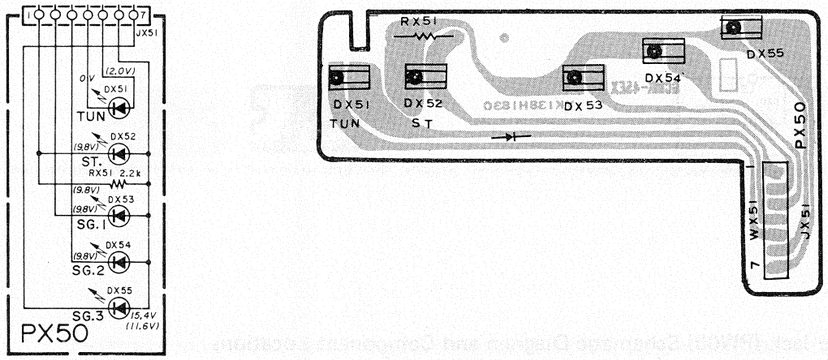


8.3 Lamp (PY00) Schematic Diagram and Component Locations

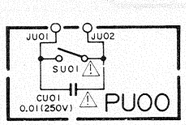


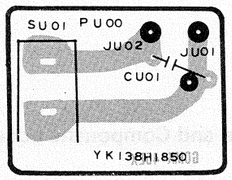


8.4 Signal Meter (PX50) Schematic Diagram and Component Locations

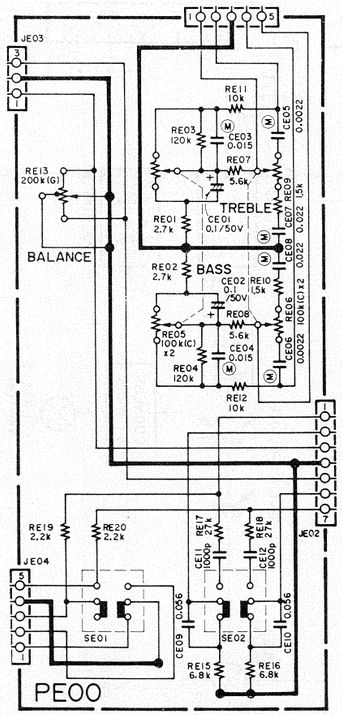


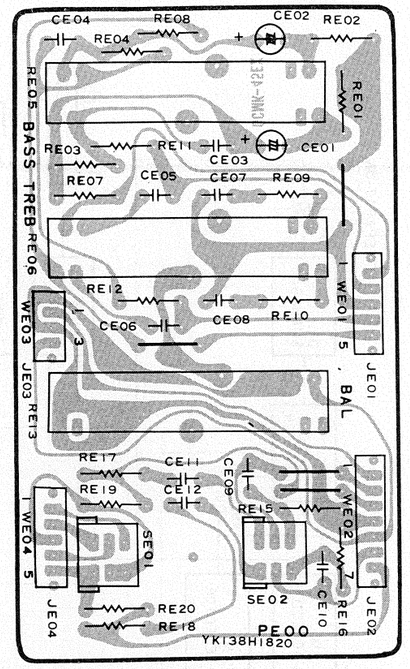
8.5 Power Switch (PU00) Schematic Diagram and Component Locations



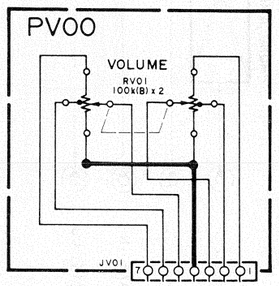


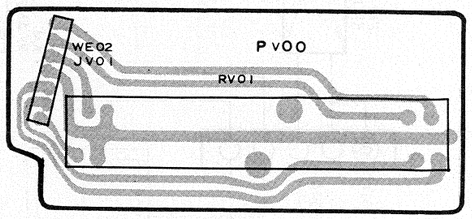
8.6 Tone Control (PE00) Schematic Diagram and Component Locations





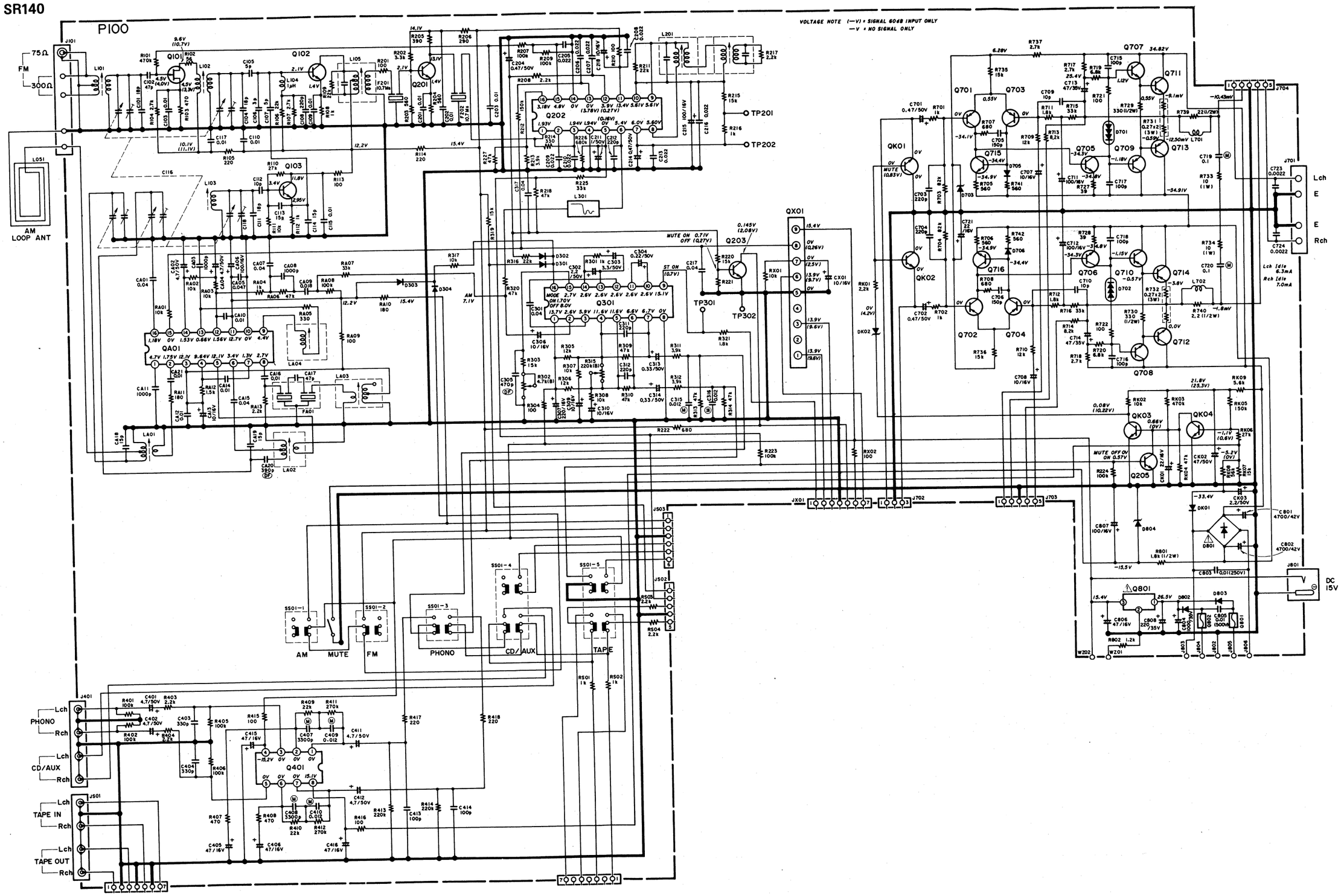
8.7 Volume (PV00) Schematic Diagram and Component Locations



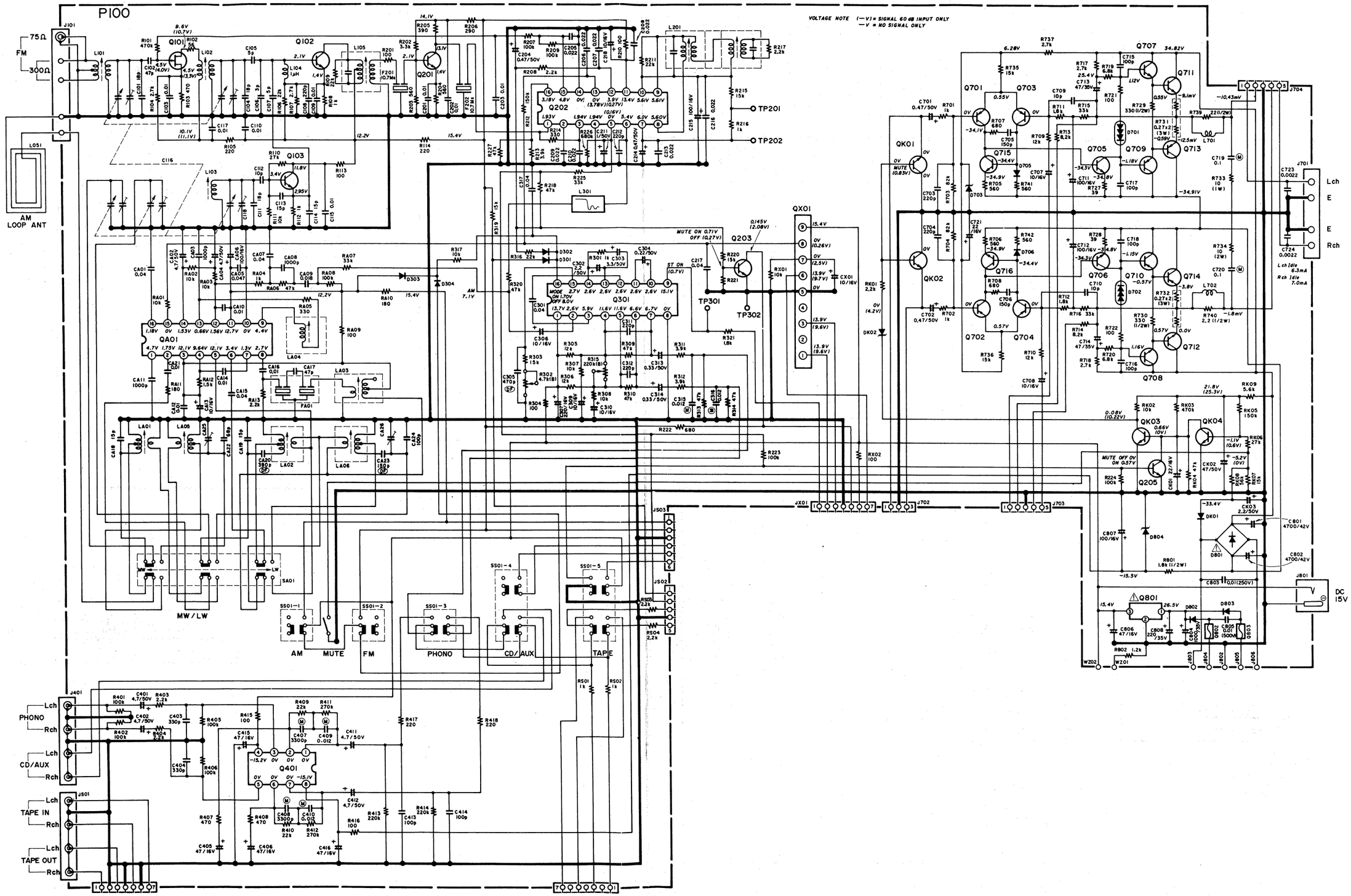


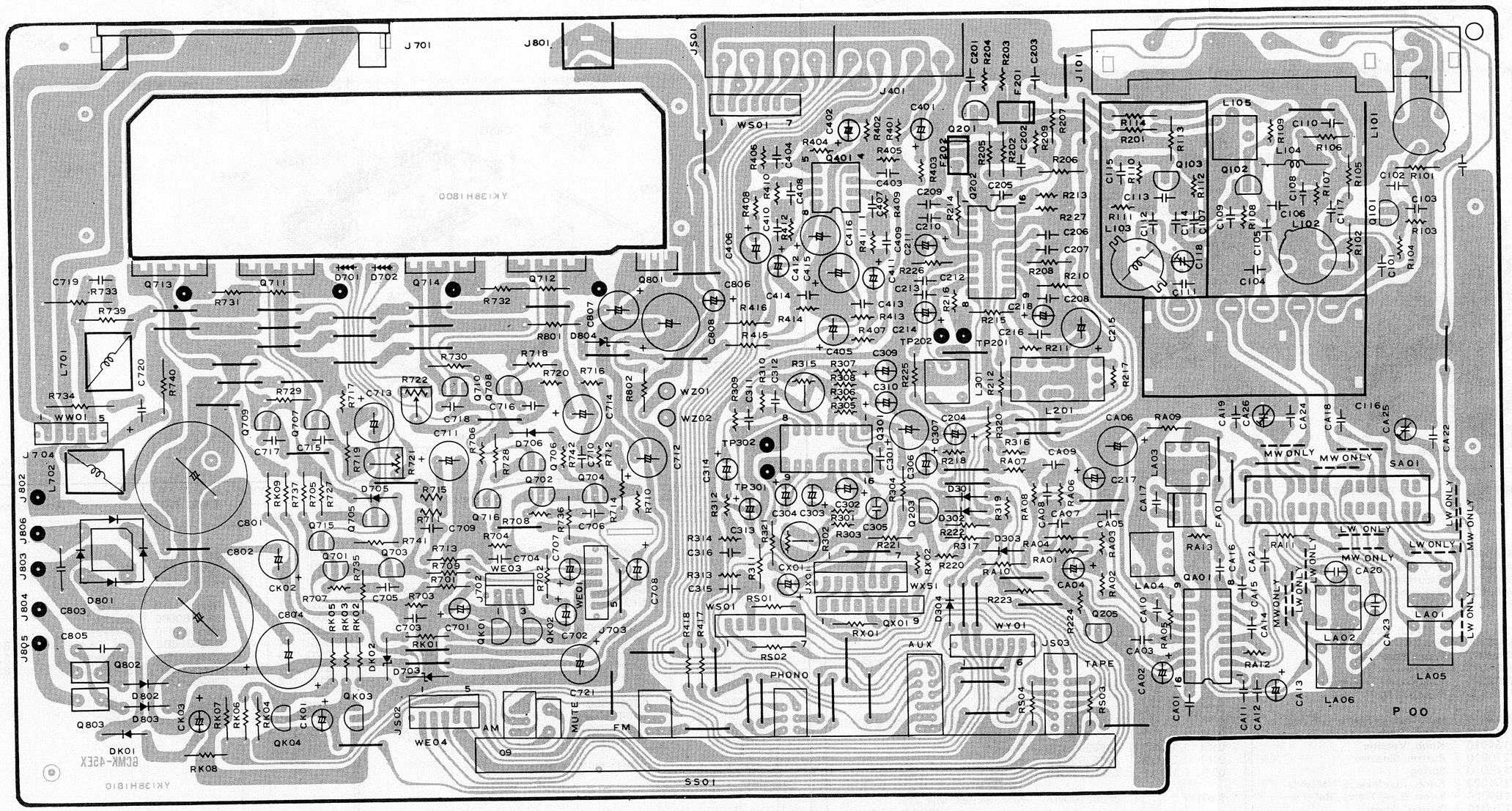
8.8 Tuner/Main (P100) Schematic Diagram and Component Locations

SR140



SR140L


P100
VOLTAGE NOTE (—V) = SIGNAL 60 dB INPUT ONLY
—V = NO SIGNAL ONLY
75Ω
FM
300Ω
AM LOOP ANT
MW / LW
AM
MUTE
FM
PHONO
CD/AUX
TAPE
Lch
Rch
E
E
Lch Idle 6.3mA
Rch Idle 7.0mA
PHONO
CD/AUX
TAPE IN
TAPE OUT
DC 15V


J 701
J801
JS01
J401
J101
WS01
WW01
WE01
WE02
WE03
WE04
WZ01
WZ02
WX51
WY01
TP201
TP202
TP301
TP302
CX01
RX01
RS01
RS02
RS03
RS04
SS01
AUX
PHONO
TAPE
AM
FM
MUTE
L701
L702
L101
L102
L103
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RA01
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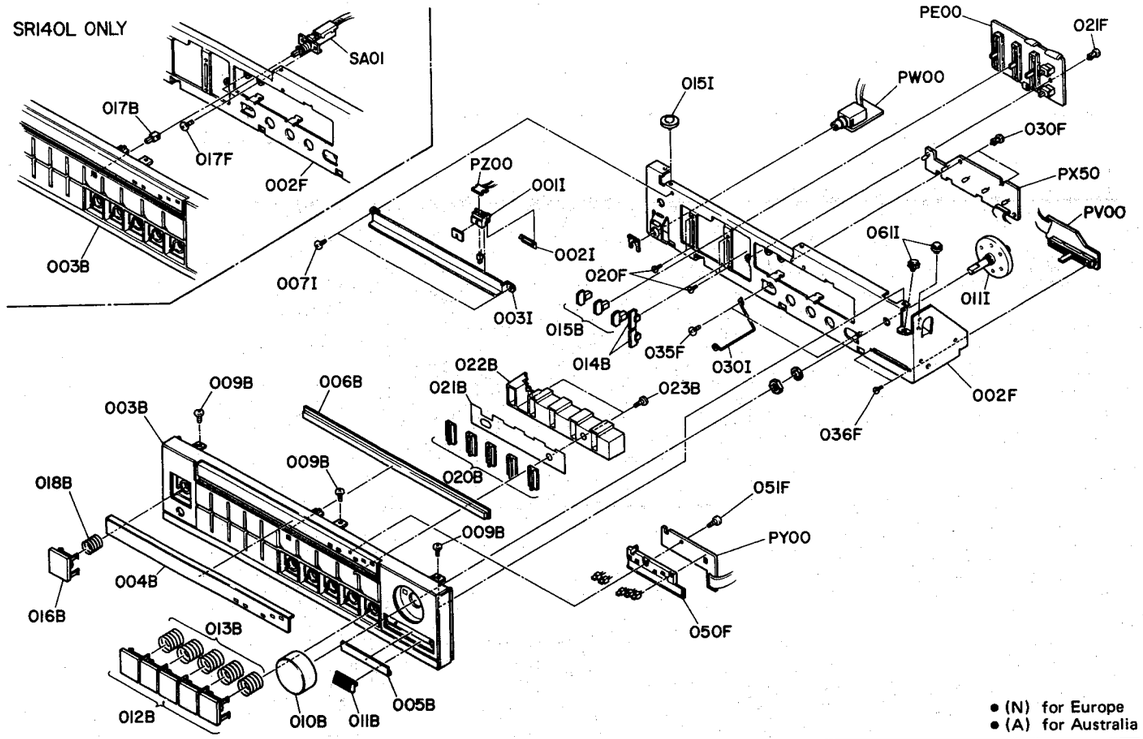
RA11
RA12
RA13
MW ONLY
LW ONLY
P 00
AK138H1810
GCMK-45EX

9. EXPLODED VIEW AND PARTS LIST

[P01-99] Front Panel

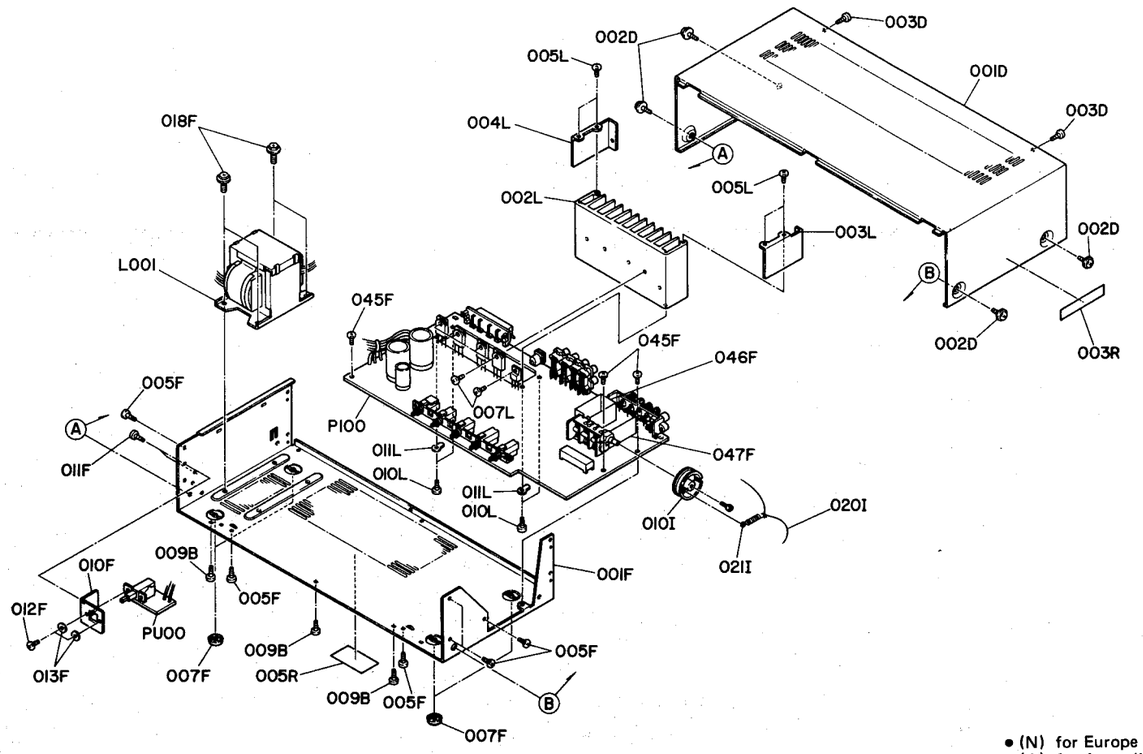


• (N) for Europe
• (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
				(SR140 ONLY)
A	1	1	138H248400	Front Panel Assembly
003B	1	1	138H248010	Front Panel
004B	1	1	138H063010	Escutcheon, Dial
005B	1	1	138H063020	Escutcheon, Volume
006B	1	1	138H158010	Window, Dial
				(SR140L ONLY)
A	1		139H248400	Front Panel Assembly
003B	1		139H248010	Front Panel
004B	1		139H063010	Escutcheon, Dial
005B	1		138H063020	Escutcheon, Volume
006B	1		138H158010	Window, Dial
009B	3	3	51280308B0	B.H. Tapped Screw B3 x 8
010B	1	1	444H154010	Knob, Tuning
011B	1	1	138H154010	Knob, Volume
012B	5	5	444H270010	Button, Selector
013B	5	5	444H115010	Spring
014B	2	2	132H154020	Knob, Loudness, ST/MONO
015B	3	3	259H154020	Knob, Bass, Treble, Balance
016B	1	1	444H270010	Button, Power
017B	1		030H154220	Button, MW/LW (SR140L ONLY)
018B	1	1	444H115010	Spring, Power, Button
020B	5	5	259H158010	Window
021B	1	1	259H158020	Window
022B	1	1	138H274010	Reflector
023B	2	2	51280308B0	B.H. Tapped Screw B3 x 8

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
002F	1	1	138H160050	Bracket, Front
017F	2		51100308A9	B.H.M. Screw (SR140L ONLY) B3 x 8
020F	4	4	51100203A0	B.H.M. Screw B2 x 3
021F	1	1	2276005050	Clamper
030F	2	2	2276005050	Clamper
035F	2	2	51100308A0	B.H.M. Screw B3 x 8
036F	2	2	51100203A0	B.H.M. Screw B2 x 3
050F	1	1	138H271010	Holder
051F	1	1	51280308B0	B.H. Tapped Screw B3 x 8
001I	1	1	446H103010	Pointer
002I	1	1	417H118110	Spacer
003I	1	1	138H051010	Guide
007I	2	2	51280308B0	B.H. Tapped Screw B3 x 8
011I	1	1	138H273010	Flywheel
015I	1	1	2259262510	Pulley
016I	2	2	2259262520	Pulley
030I	1	1	138H115010	Spring
SA01	1		SP00010040	Push, Switch, MW/LW (SR140L ONLY)

[P02-99] Top & Bottom Cover and General Parts

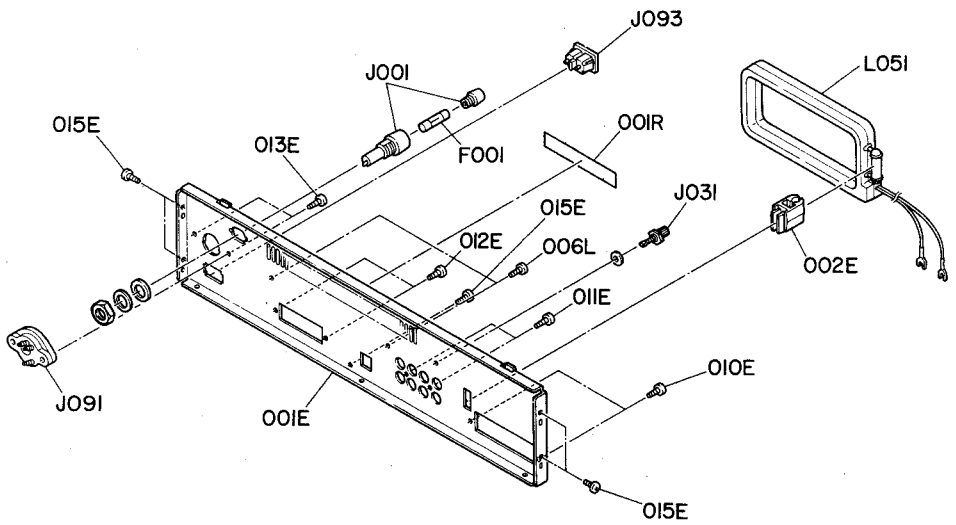


• (N) for Europe
• (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
009B	3	3	51280308U0	B.H. Tapped Screw B3 x 8
001D	1	1	138H257010	Top Cover
002D	4	4	51260408U0	B.T. Screw B4 x 8
003D	2	2	51280308U0	B.H. Tapped Screw B3 x 8
001F	1	1	138H105010	Chassis
005F	6	6	51280308B0	B.H. Tapped Screw B3 x 8
007F	4	4	258H057010	Leg
010F	1	1	138H104010	Retainer
011F	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012F	2	2	51100308A0	B.H.M. Screw B3 x 8
013F	2	2	138H055010	Collar
018F	4	4	52040408A0	H. Head Bolt
045F	3	3	51280308B0	B.H. Tapped Screw B3 x 8
046F	1	1	117H109010	Shield
047F	1	1	117H109020	Shield

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
010I	1	1	138H273010	Drum
020I	1	1	72040805A0	String, 125 cm
021I	1	1	2112115020	Spring
002L	1	1	138H267010	Heat Sink
003L	2	2	138H160060	Bracket
004L	1	1	138H160070	Bracket
005L	4	4	51280308B0	B.H. Tapped Screw B3 x 8
007L	5	5	51780312B0	Fin Neck B.T. F3 x 12
010L	4	4	51260308B0	B.T. Screw B3 x 8
011L	2	2	62030049W0	Lug
003R	1	1	2911861140	Label
005R	1	1	2911861110	Label

[P03-99] Rear Panel

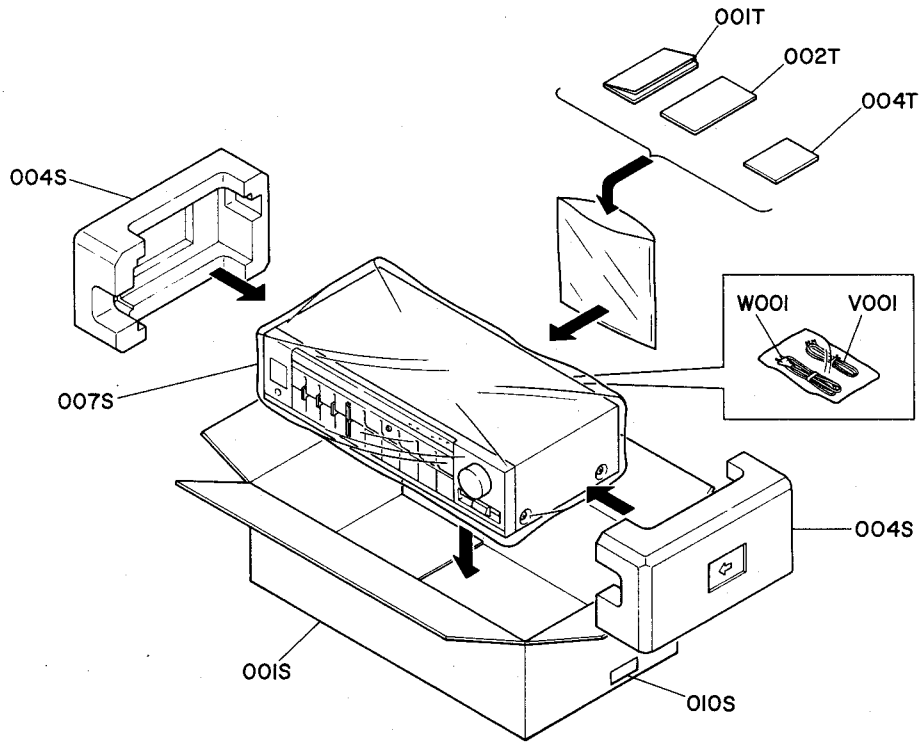


- (N) for Europe
- (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
001E	1	1	138H250010	Rear Panel (SR140)
001E	1		139H250010	Rear Panel (SR140L)
002E	1	1	408H271020	Holder, ANT
010E	2	2	5128030880	B.H. Tapped Screw B3 x 8
011E	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012E	2	2	51280308B0	B.H. Tapped Screw B3 x 8
013E	2	2	51280308B0	B.H. Tapped Screw B3 x 8
015E	5	5	51280308B0	B.H. Tapped Screw B3 x 8
006L	2	2	51280308B0	B.H. Tapped Screw B3 x 8
001R	1	1	2112265110	Indicator, Serial No.

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
⚠F001	1	1	FS10100800	Fuse
J001	1	1	YJ08000290	Fuse Holder
J031	1	1	YL03010250	Terminal, GND
⚠J091	1	1	BY05080050	Voltage Selector (SR340)
⚠J091	1		BY05030040	Voltage Selector (SR340L)
⚠J093	1	1	YP04000580	AC Inlet
L051	1	1	LA00015020	AM Loop Antenna

[H01-99] Packing Materials



• (N) for Europe
• (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
001S	1	1	138H801010	Packing Case (SR140)
001S	1		139H801010	Packing Case (SR140L)
004S	2	2	158T809010	Cushion
007S	1	1	9090808030	Polyethylene Sheet, Set
010S	1		9526019060	Serial No. Card
010S		1	9526019030	Serial No. Card
001T	1	1	138H851310	User Manual
002T	1	1	138H851320	User Manual, Spec Flysheet
004T		1	9631000090	Warranty Card

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
V001	1	1	ZA02000070	EXT. Antenna
⚠W001	1		Z001805010	A.C. Power Cord
⚠W001		1	Z002006020	A.C. Power Cord

10. ELECTRICAL PARTS LIST

• (N) for Europe
• (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
				PZ00 DIAL INDICATOR CIRCUIT BOARD
PZ00	1	1	YK138H1860	P.W. Board, Dial Indicator
	1	1	ZZ138H8860	P.W. Board Assembly
				PZ00-SEMICONDUCTOR
DZ01	1	1	HI10032320	L.E.D. GL-9PR24
				PW00 HEADPHONE JACK CIRCUIT BOARD
PW00	1	1	YK138H1840	P.W. Board, Headphone Jack
	1	1	ZZ138H8840	P.W. Board Assembly
				PW00-RESISTORS (All Resistors are ±5%)
RW01	1	1	GG05331120	330Ω 1/2W
RW02	1	1	GG05331120	330Ω 1/2W
				PW00-MISCELLANEOUS
JW01	1	1	YJ01001770	Jack, Headphone
JW02	1	1	ZP01050010	Wire Holder (5P)
WW01	1	1	YZ05260260	Jumper Lead (5P)
				PY00 LAMP CIRCUIT BOARD
PY00	1	1	YK138H1870	P.W. Board, Lamp
	1	1	ZZ138H8870	P.W. Board Assembly
				PY00-RESISTORS (All Resistors are ±5%)
RY01 ~ RY04	4	4	NK05151120	150Ω 1/2W
				PY00-MISCELLANEOUS
VY01 ~ VY05	5	5	IN10080610	Lamp
WY01	1	1	YZ06200260	Jumper Lead (6P)
				PX50 SIGNAL METER CIRCUIT BOARD
PX50	1	1	YK138H1830	P.W. Board, Signal Meter
	1	1	ZZ138H8830	P.W. Board Assembly
				PX50-RESISTOR
RX51	1	1	GD05222140	2.2kΩ 1/4W ±5%
				PX50-SEMICONDUCTORS
DX51	1	1	HI10025030	L.E.D. SLP-251B (Green)
DX52 ~ DX55	4	4	HI10014030	L.E.D. SLP-151B (Red)
				PX50-MISCELLANEOUS
JX51	1	1	ZP01070010	Wire Holder (7P)
WX51	1	1	YZ07180260	Jumper Lead (7P)
				PU00 POWER SWITCH CIRCUIT BOARD
PU00	1	1	YK138H1850	P.W. Board, Power Switch
	1	1	ZZ138H8850	P.W. Board Assembly
				PU00-CAPACITOR
⚠CU01	1	1	DK18103840	Ceramic 0.01μF +80%, −20%
				PU00-MISCELLANEOUS
⚠SU01	1	1	SP01010650	Push Switch, Power

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
				PE00 TONE CONTROL CIRCUIT BOARD
PE00	1	1	YK138H1820	P.W. Board, Tone Control
	1	1	ZZ138H8820	P.W. Board Assembly
				PE00-CAPACITORS
CE01	1	1	EA10405030	Elect 0.1μF 50V
CE02	1	1	EA10405030	Elect 0.1μF 50V
CE03	1	1	DF15153310	Film 0.015μF ±5%
CE04	1	1	DF15153310	Film 0.015μF ±5%
CE05	1	1	DK16222300	Ceramic 0.0022μF ±10%
CE06	1	1	DK16222300	Ceramic 0.0022μF ±10%
CE07	1	1	DF15223310	Film 0.022μF ±5%
CE08	1	1	DF15223310	Film 0.022μF ±5%
CE09	1	1	DF15563310	Film 0.056μF ±5%
CE10	1	1	DF15563310	Film 0.056μF ±5%
CE11	1	1	DK16102300	Ceramic 0.001μF ±10%
CE12	1	1	DK16102300	Ceramic 0.001μF ±10%
				PE00-RESISTORS (All Resistors are ±5% & 1/4W)
RE01	1	1	GD05272140	2.7kΩ
RE02	1	1	GD05272140	2.7kΩ
RE03	1	1	GD05124140	120kΩ
RE04	1	1	GD05124140	120kΩ
RE05	1	1	RS01040340	100kΩ (C) x 2 Variable (BASS)
RE06	1	1	RS01040340	100kΩ (C) x 2 Variable (TREBLE)
RE07	1	1	GD05562140	5.6kΩ
RE08	1	1	GD05562140	5.6kΩ
RE09	1	1	GD05122140	1.2kΩ
RE10	1	1	GD05122140	1.2kΩ
RE11	1	1	GD05103140	10kΩ
RE12	1	1	GD05103140	10kΩ
RE13	1	1	RX02040090	200kΩ (G) Variable (BALANCE)
RE15	1	1	GD05682140	6.8kΩ
RE16	1	1	GD05682140	6.8kΩ
RE17	1	1	GD05273140	27kΩ
RE18	1	1	GD05273140	27kΩ
RE19	1	1	GD05222140	2.2kΩ
RE20	1	1	GD05222140	2.2kΩ
				PE00-MISCELLANEOUS
JE01	1	1	ZP01050010	Wire Holder (5P)
JE02	1	1	ZP01070010	Wire Holder (7P)
JE03	1	1	ZP01030010	Wire Holder (3P)
JE04	1	1	ZP01050010	Wire Holder (5P)
SE01	1	1	SP02011080	Push Switch, MONO/ST
SE02	1	1	SP02011080	Push Switch, Loudness
WE01	1	1	YZ05180260	Jumper Lead (5P)
WE02	1	1	YZ07280260	Jumper Lead (7P)
WE03	1	1	YZ03160260	Jumper Lead (3P)
WE04	1	1	YZ05160260	Jumper Lead (5P)

• (N) for Europe
• (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
				P100 TUNER/MAIN CIRCUIT BOARD
				(SR140 ONLY)
P100	1	1	YK138H1810	P.W. Board, Tuner/Main
	1	1	ZZ138H8810	P.W. Board Assembly
				(SR140L ONLY)
P100	1		YK138H1810	P.W. Board, Tuner/Main
	1		ZZ139H8810	P.W. Board Assembly
				P100-CAPACITORS
C101	1	1	DD15180370	Ceramic 18pF ±5%
C102	1	1	DD15470370	Ceramic 47pF ±5%
C103	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
C104	1	1	DD15150370	Ceramic 15pF ±5%
C105	1	1	DD10050370	Ceramic 5pF ±0.25pF
C106	1	1	DD11100370	Ceramic 10pF ±0.5pF
C107	1	1	DD10050300	Ceramic 5pF ±0.25pF
C108	1	1	DD15221370	Ceramic 220pF ±5%
C109	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
C110	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
C111	1	1	DD15180340	Ceramic 18pF ±5%
C112	1	1	DD11100300	Ceramic 10pF ±0.5pF
C113	1	1	DD15150300	Ceramic 15pF ±5%
C114	1	1	DD15150300	Ceramic 15pF ±5%
C115	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
C116	1	1	CA32400130	Variable Capacitor
C117	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
C118	1	1	CT11000150	Trimming 11pF
C201	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
C202	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
C203	1	1	DK18223310	Ceramic 0.022μF +80%, −20%
C204	1	1	EA47405030	Elect 0.47μF 50V
C205 ≀ C210	5	5	DK18223310	Ceramic 0.022μF +80%, −20%
C211	1	1	EA10505030	Elect 1μF 50V
C212	1	1	DK16221300	Ceramic 220pF ±10%
C213	1	1	DK18223310	Ceramic 0.022μF +80%, −20%
C214	1	1	EA47405030	Elect 0.47μF 50V
C215	1	1	EA10701630	Elect 100μF 16V
C216	1	1	DK18223310	Ceramic 0.022μF +80%, −20%
C217	1	1	DK18403320	Ceramic 0.04μF +80%, −20%
C218	1	1	EA10601630	Elect 10μF 16V
C301	1	1	DK18403320	Ceramic 0.04μF +80%, −20%
C302	1	1	EA22505030	Elect 2.2μF 50V
C303	1	1	EA33505030	Elect 3.3μF 50V
C304	1	1	EA22405030	Elect 0.22μF 50V
C305	1	1	DF15471350	Film 470pF ±5%
C306	1	1	EA10601630	Elect 10μF 16V
C307	1	1	EA10701630	Elect 100μF 16V
C309	1	1	EA10601630	Elect 10μF 16V
C310	1	1	EA10601630	Elect 10μF 16V

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
C311	1	1	DK16221300	Ceramic 220pF ±10%
C312	1	1	DK16221300	Ceramic 220pF ±10%
C313	1	1	EA33405030	Elect 0.33μF 50V
C314	1	1	EA33405030	Elect 0.33μF 50V
C315	1	1	DF16123310	Film 0.012μF ±10%
C316	1	1	DF16123310	Film 0.012μF ±10%
C317	1	1	DK18403320	Ceramic 0.04μF +80%, −20%
C401	1	1	EA47503530	Elect 4.7μF 35V
C402	1	1	EA47503530	Elect 4.7μF 35V
C403	1	1	DK16331300	Ceramic 330pF ±10%
C404	1	1	DK16331300	Ceramic 330pF ±10%
C405	1	1	EA47601630	Elect 47μF 50V
C406	1	1	EA47601630	Elect 47μF 50V
C407	1	1	DK16332300	Ceramic 0.0033μF ±10%
C408	1	1	DK16332300	Ceramic 0.0033μF ±10%
C409	1	1	DF15123310	Film 0.012μF ±5%
C410	1	1	DF15123310	Film 0.012μF ±5%
C411	1	1	EA47503530	Elect 4.7μF 35V
C412	1	1	EA47503530	Elect 4.7μF 35V
C413	1	1	DK16101300	Ceramic 100pF ±10%
C414	1	1	DK16101300	Ceramic 100pF ±10%
C415	1	1	EA47601630	Elect 47μF 16V
C416	1	1	EA47601630	Elect 47μF 16V
C701	1	1	EA47405030	Elect 0.47μF 50V
C702	1	1	EA47405030	Elect 0.47μF 50V
C703	1	1	DK16221300	Ceramic 220pF ±10%
C704	1	1	DK16221300	Ceramic 220pF ±10%
C705	1	1	DK16151300	Ceramic 150pF ±10%
C706	1	1	DK16151300	Ceramic 150pF ±10%
C707	1	1	EA10601630	Elect 10μF 16V
C708	1	1	EA10601630	Elect 10μF 16V
C709	1	1	DD11100370	Ceramic 10pF ±0.25pF
C710	1	1	DD11100370	Ceramic 10pF ±0.25pF
C711	1	1	EA10701030	Elect 100μF 16V
C712	1	1	EA10701030	Elect 100μF 16V
C713	1	1	EA47603530	Elect 47μF 35V
C714	1	1	EA47603530	Elect 47μF 35V
C715 ≀ C718	4	4	DK16101300	Ceramic 100pF ±10%
C719	1	1	DF15104310	Film 0.1μF ±5%
C720	1	1	DF15104310	Film 0.1μF ±5%
C721	1	1	EA22601630	Elect 22μF 16V
C723	1	1	DK16222300	Ceramic 0.0022μF ±10%
C724	1	1	DK16222300	Ceramic 0.0022μF ±10%
C801	1	1	EB47804210	Elect 4700μF 42V
C802	1	1	EB47804210	Elect 4700μF 42V
C803	1	1	DK18103560	Ceramic 0.01μF +80%, −20%
C804	1	1	EA10803530	Elect 1000μF 35V
C805	1	1	DK18103560	Ceramic 0.01μF +80%, −20%
C806	1	1	EA47601630	Elect 47μF 16V
C807	1	1	EA10701630	Elect 100μF 16V
C808	1	1	EA22703530	Elect 220μF 35V

• (N) for Europe
• (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
CA01	1	1	DK18403320	Ceramic 0.04μF +80%, −20%
CA02	1	1	EA47503530	Elect 4.7μF 35V
CA03	1	1	DK16102300	Ceramic 1000pF ±10%
CA04	1	1	EA47503530	Elect 4.7μF 35V
CA05	1	1	DK18403320	Ceramic 0.04μF +80%, −20%
CA06	1	1	EA10701630	Elect 100μF 16V
CA07	1	1	DK18403320	Ceramic 0.04μF +80%, −20%
CA08	1	1	DK16102300	Ceramic 1000pF ±10%
CA09	1	1	DK16183300	Ceramic 0.018μF ±10%
CA10	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
CA11	1	1	DK16102300	Ceramic 1000pF ±10%
CA12	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
CA13	1	1	EA10601630	Elect 10μF 16V
CA14	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
CA15	1	1	DK18403320	Ceramic 0.04μF +80%, −20%
CA16	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
CA17	1	1	DD15470370	Ceramic 47pF ±5%
CA18	1	1	DD15150370	Ceramic 15pF ±5%
CA19	1	1	DD15150300	Ceramic 15pF ±5%
CA20	1	1	DF55391090	Film 390pF ±5%
CA21	1	1	DK18103310	Ceramic 0.01μF +80%, −20%
CA22	1		DD15680370	Ceramic 68pF ±5% (SR140L)
CA23	1		DF55151090	Film 150pF ±5% (SR140L)
CA24	1		DD15101370	Ceramic 100pF ±5% (SR140L)
CA25	1		CT12000090	Trimming 20pF (SR140L)
CA26	1		CT12000090	Trimming 20pF (SR140L)
CK01	1	1	EA47601630	Elect 47μF 16V
CK02	1	1	EA47605030	Elect 47μF 50V
CK03	1	1	EA22505030	Elect 2.2μF 50V
CX01	1	1	EA10601630	Elect 10μF 16V
				P100-RESISTORS (All resistors are ±5% & 1/4W)
R101	1	1	GD05474140	470kΩ
R102	1	1	GD05560140	56Ω
R103	1	1	GD05471140	470Ω
R104	1	1	GD05272140	2.7kΩ
R105	1	1	GD05221140	220Ω
R106	1	1	GD05223140	22kΩ
R107	1	1	GD05272140	2.7kΩ
R108	1	1	GD05102140	1kΩ
R109	1	1	GD05223140	22kΩ
R110	1	1	GD05273140	27kΩ
R111	1	1	GD05103140	10kΩ
R112	1	1	GD05102140	1kΩ
R113	1	1	GD05101140	100Ω
R114	1	1	GD05221140	220Ω
R201	1	1	GD05101140	100Ω
R202	1	1	GD05332140	3.3kΩ
R203	1	1	GD05561140	560Ω
R204	1	1	GD05561140	560Ω
R205	1	1	GD05391140	390Ω
R206	1	1	GD05221140	220Ω

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
R207	1	1	GD05104140	100kΩ
R208	1	1	GD05222140	2.2kΩ
R209	1	1	GD05104140	100kΩ
R210	1	1	GD05101140	100Ω
R211	1	1	GD05223140	22kΩ
R212	1	1	GD05154140	150kΩ
R213	1	1	GD05392140	3.9kΩ
R214	1	1	GD05331140	330Ω
R215	1	1	GD05153140	15kΩ
R216	1	1	GD05102140	1kΩ
R217	1	1	GD05222140	2.2kΩ
R218	1	1	GD05473140	47kΩ
R220	1	1	GD05153140	15kΩ
R221	1	1	GD05683140	68kΩ
R222	1	1	GD05681140	680Ω
R223	1	1	GD05104140	100kΩ
R224	1	1	GD05683140	68kΩ
R225	1	1	GD05333140	33kΩ
R226	1	1	GD05684140	680kΩ
R227	1	1	GD05473140	47kΩ
R301	1	1	GD05102140	1kΩ
R302	1	1	RA04720600	4.7kΩ (B) Trimming
R303	1	1	GD05153140	15kΩ
R304	1	1	GG05101140	100Ω
R305	1	1	GD05223140	22kΩ
R306	1	1	GD05223140	22kΩ
R307	1	1	GD05103140	10kΩ
R308	1	1	GD05103140	10kΩ
R309	1	1	GD05473140	47kΩ
R310	1	1	GD05473140	47kΩ
R311	1	1	GD05392140	3.9kΩ
R312	1	1	GD05392140	3.9kΩ
R313	1	1	GD05473140	47kΩ
R314	1	1	GD05473140	47kΩ
R315	1	1	RA02240600	220kΩ (B) Trimming
R316	1	1	GD05223140	22kΩ
R317	1	1	GD05103140	10kΩ
R319	1	1	GD05153140	15kΩ
R320	1	1	GD05473140	47kΩ
R321	1	1	GD05182140	1.8kΩ
R401	1	1	GD05104140	100kΩ
R402	1	1	GD05104140	100kΩ
R403	1	1	GD05222140	2.2kΩ
R404	1	1	GD05222140	2.2kΩ
R405	1	1	GD05104140	100kΩ
R406	1	1	GD05104140	100kΩ
R407	1	1	GD05471140	470Ω
R408	1	1	GD05471140	470Ω
R490	1	1	GD05223140	22kΩ
R410	1	1	GD05223140	22kΩ

• (N) for Europe
• (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
R411	1	1	GD05274140	270kΩ
R412	1	1	GD05274140	270kΩ
R413	1	1	GD05224140	220kΩ
R414	1	1	GD05224140	220kΩ
R415	1	1	GG05101140	100Ω
R416	1	1	GG05101140	100Ω
R417	1	1	GD05221140	220Ω
R418	1	1	GD05221140	220Ω
R701	1	1	GD05102140	1kΩ
R702	1	1	GD05102140	1kΩ
R703	1	1	GD05823140	82kΩ
R704	1	1	GD05823140	82kΩ
R705	1	1	GD05561140	560Ω
R706	1	1	GD05561140	560Ω
R707	1	1	GD05681140	680Ω
R708	1	1	GD05681140	680Ω
R709	1	1	GD05123140	12kΩ
R710	1	1	GD05123140	12kΩ
R711	1	1	GD05182140	1.8kΩ
R712	1	1	GD05182140	1.8kΩ
R713	1	1	GD05822140	8.2kΩ
R714	1	1	GD05822140	8.2kΩ
R715	1	1	GD05333140	33kΩ
R716	1	1	GD05333140	33kΩ
R717	1	1	GD05272140	2.7kΩ
R718	1	1	GD05272140	2.7kΩ
R719	1	1	GD05682140	6.8kΩ
R720	1	1	GD05682140	6.8kΩ
R721	1	1	GD05680140	68Ω
R722	1	1	GD05680140	68Ω
R727	1	1	GD05390140	39Ω
R728	1	1	GD05390140	39Ω
R729	1	1	GG05331140	330Ω
R730	1	1	GG05331140	330Ω
R731	1	1	BW10000040	0.27Ω x 2 3W
R732	1	1	BW10000040	0.27Ω x 2 3W
R733	1	1	GA05100020	10Ω 2W
R734	1	1	GA05100020	10Ω 2W
R735	1	1	GD05153140	15kΩ
R736	1	1	GD05153140	15kΩ
R737	1	1	GD05272140	2.7kΩ
R739	1	1	GG05022120	2.2Ω 1/2W
R740	1	1	GG05022120	2.2Ω 1/2W
R741	1	1	GD05561140	560Ω
R742	1	1	GD05561140	560Ω
R801	1	1	GG05152120	1.5kΩ
R802	1	1	GD05182140	1.8kΩ

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
RA01	1	1	GD05103140	10kΩ
RA02	1	1	GD05103140	10kΩ
RA03	1	1	GD05103140	10kΩ
RA04	1	1	GD05102140	1kΩ
RA05	1	1	GD05331140	330Ω
RA06	1	1	GD05473140	47kΩ
RA07	1	1	GD05333140	33kΩ
RA08	1	1	GD05104140	100kΩ
RA09	1	1	GD05101140	100Ω
RA10	1	1	GD05181140	180Ω
RA11	1	1	GD05181140	180Ω
RA12	1	1	GD05152140	1.5kΩ
RA13	1	1	GD05222140	2.2kΩ
RK01	1	1	GD05222140	2.2kΩ
RK02	1	1	GD05103140	10kΩ
RK03	1	1	GD05474140	470kΩ
RK04	1	1	GD05473140	47kΩ
RK05	1	1	GD05154140	150kΩ
RK06	1	1	GD05273140	27kΩ
RK07	1	1	GD05153140	15kΩ
RK08	1	1	GD05393140	39kΩ
RK09	1	1	GD05562140	5.6kΩ
RS01	1	1	GD05102140	1kΩ
RS02	1	1	GD05102140	1kΩ
RS03	1	1	GD05222140	2.2kΩ
RS04	1	1	GD05222140	2.2kΩ
RX01	1	1	GD05103140	10kΩ
RX02	1	1	GD05101140	100Ω

• (N) for Europe
• (A) for Australia

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
				P100-SEMICONDUCTORS
D301 ~ D304	4	4	HD20001000	Diode 1S1555
D701	1	1	HV00006120	Varistor MV203
D702	1	1	HV00006120	Varistor MV203
D703	1	1	HD30006020	Zener MA1062M
D705	1	1	HD20001000	Diode 1S1555
D706	1	1	HD20001000	Diode 1S1555
D801	1	1	HD20008290	Diode S4VB
D802	1	1	HD20015030	Diode DS135
D803	1	1	HD20015030	Diode DS135
D804	1	1	HD30012020	Zener MA1150M
DK01	1	1	HD20001000	Diode 1S1555
DK02	1	1	HD30006020	Zener MA1062M
Q101	1	1	HF200551D0	F.E.T. 2SK55 (C)
Q102	1	1	HT308291C0	Transistor 2SC829 (C)
Q103	1	1	HT308291C0	Transistor 2SC829 (C)
Q201	1	1	HT327852D0	Transistor 2SC2785 (EE or EF)
Q202	1	1	HC10033010	IC HA11225
Q203	1	1	HT327851F0	Transistor 2SC2785 (EF)
Q205	1	1	HT327851F0	Transistor 2SC2785 (EF)
Q301	1	1	HC10046020	IC AN7470
Q401	1	1	HC10003090	IC NJM4558D
Q701 ~ Q704	4	4	HT109921F0	Transistor 2SA992 (FA)
Q705	1	1	HT326312C0	Transistor 2SC2631 (R or C)
Q706	1	1	HT326312C0	Transistor 2SC2631 (R or C)
Q707	1	1	HT406672E0	Transistor 2SD667 (B or C)
Q708	1	1	HT406672E0	Transistor 2SD667 (B or C)
Q709	1	1	HT206472E0	Transistor 2SB647 (B or C)
Q710	1	1	HT206472E0	Transistor 2SB647 (B or C)
Q711	1	1	HT407162A0	Transistor 2SD716 (R or O)
Q712	1	1	HT407162A0	Transistor 2SD716 (R or O)
Q713	1	1	HT206862A0	Transistor 2SB686 (R or O)
Q714	1	1	HT206862A0	Transistor 2SB686 (R or O)
Q715	1	1	HT327851F0	Transistor 2SC2785 (EF)
Q716	1	1	HT327851F0	Transistor 2SC2785 (EF)
⚠Q801	1	1	HC38915090	IC NJM7815A
Q802	1	1	FU27215010	Protector Unit ICP-F75
Q803	1	1	FU27215010	Protector Unit ICP-F75
QA01	1	1	HC10041030	IC LA1240
QK01 ~ QK04	4	4	HT327851F0	Transistor 2SC2785 (EF)
QX01	1	1	HC10098030	IC LB1413

REF. DESIG.	Q'TY N	Q'TY A	PART NO.	DESCRIPTION
				P100-MISCELLANEOUS
F201	1	1	FF11070130	Ceramic Filter
F202	1	1	FF11070130	Ceramic Filter
FA01	1	1	FF10045200	Ceramic Filter
J101	1	1	YT01050040	Terminal, Antenna (5P)
J401	1	1	YT02040470	Terminal (4P)
J701	1	1	YT03040230	Terminal, Speaker (4P)
J702	1	1	ZP01030010	Wire Holder (3P)
J703	1	1	YJ06002390	Jack (5P)
J704	1	1	ZP01050010	Wire Holder (5P)
J801	1	1	YJ04001030	Jack, DC
JS01	1	1	YT02040470	Terminal (4P)
JS02	1	1	YJ06002390	Jack (5P)
JS03	1	1	ZP01060010	Wire Holder (6P)
JX01	1	1	YJ06002460	Jack (7P)
L101	1	1	LA12026170	ANT Coil, FM
L102	1	1	LA12026180	ANT Coil, FM
L103	1	1	LC12036010	OSC Coil, FM
L104	1	1	LC17510010	IF Trap Coil
L105	1	1	LI10016010	I.F.T., FM
L201	1	1	LI20029030	I.F.T., FM DET
L301	1	1	LS10295030	M.P.X. Coil
L701	1	1	LL23905120	Choke Coil
L702	1	1	LL23905120	Choke Coil
LA01	1	1	LA10295010	ANT Coil, AM
LA02	1	1	LO10013370	OSC Coil, AM
LA03	1	1	LI10013230	I.F.T., AM
LA04	1	1	LI10013280	I.F.T., AM
LA05	1		LA10295120	ANT Coil, LW (SR140L)
LA06	1		LO10013380	OSC Coil, LW (SR140L)
SA01	1		SS06020490	Slide Switch, MW/LW (SR140L)
SS01	1	1	SP04050280	Push Switch, Function
WS01	1	1	YU07160260	Jumper Lead
				PV00 VOLUME CIRCUIT BOARD
PV00	1	1	YK138H1880	P.W. Board, Volume
	1	1	ZZ138H8880	P.W. Board Assembly
				PV00-RESISTOR
PV01	1	1	RS01040410	100kΩ (B) x 2 Variable
				PV00-MISCELLANEOUS
JS51	1	1	ZP01070010	Wire Holder (7P)

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

NOTE ON SAFETY:
Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

11. TECHNICAL SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT PER CHANNEL

DIN 8 OHMS **30W**
RMS 8 OHMS **25W**
TOTAL HARMONIC DISTORTION AT RMS 8 OHMS **0.06%**
DAMPING FACTOR 8 OHMS(1 kHz) **38**

Frequency Response
Phono: (RIAA) ..... ±0.7 dB
Aux: (±1.0dB) ..... 50 Hz – 35 kHz
Signal-to-Noise Ratio
Phono ..... 63 dB
Aux ..... 90 dB
Input Terminals
Phono: Input Sensitivity/Impedance ..... 2.5 mV/44 kohms
Aux: Input Sensitivity/Impedance ..... 150 mV/63 kohms

FM TUNER SECTION

Frequency Range ..... 87.5 – 108 MHz
Usable Sensitivity
DIN Mono (S/N 26 dB, 75 ohms) ..... 1.0 μV
DIN Stereo (S/N 46 dB, 75 ohms) ..... 30 μV
Signal-to-Noise Ratio, 98 MHz
Unweighted: Mono ..... 75 dB
Stereo ..... 68 dB
Weighted: Mono ..... 77 dB
Stereo ..... 70 dB

MW TUNER SECTION

Frequency Range ..... 531– 1602 kHz
Usable Sensitivity (20 dB S/N 30% Mod., 1 MHz) ..... 25 μV
Selectivity (±18 kHz) ..... 32 dB

LW TUNER SECTION

Frequency Range ..... 153 – 281 kHz
Usable Sensitivity (20 dB S/N 30% Mod., 220 kHz) ..... 120 μV

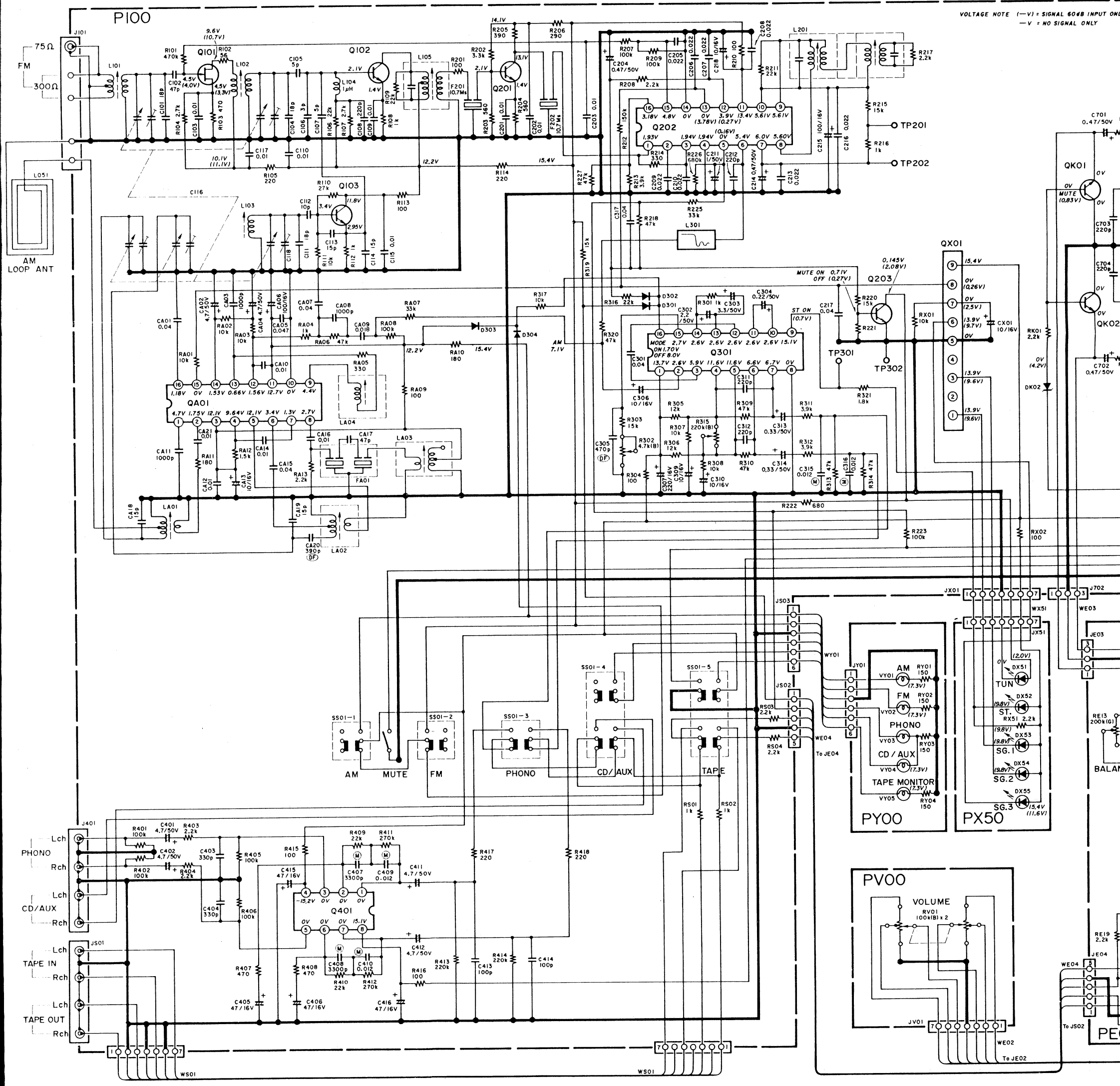
GENERAL

Power Requirements
SR140 ..... 110/120/220/240 V AC, 50/60 Hz
SR140L ..... 220/240 V AC, 50/60 Hz
Power Consumption at Rated Output, Both Channels Operating 120W
Dimensions
Panel Width ..... 416 mm
Panel Height ..... 100 mm
Depth ..... 200 mm
Weight
Unit alone ..... 4.9 kg

Specifications and appearance are subject to change for modification without notice.

12. SCHEMATIC DIAGRAM

Q101	Q102, Q103	Q201, Q203, Q205	Q202	Q301	Q401	Q701~Q704	Q705, Q706	Q707, Q708	Q709, Q710	Q711, Q712	Q713, Q714	Q801	QA01
HF20055IDO	HT30829ICO	QK01~QK04	HCI0033010	HCI0046020	HCI0105030	HTI09921FO	HT32631CO	HT406672EO	HT206472EO	HT407162AO	HT206862AO	HC38915090	HCI0041O3
2SK55(D)	2SC829(C)	Q715, Q716	HA11225	AN7470	LA6458D	2SA992	2SC2631	2SD667	2SB647	2SD716	2SB686	NJM7815A	LA1240
		HT32785IFO											
		2SC2785											



NOTE ON SAFETY:

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MODEL SR140

D8 2E0	Q709, Q710 HT206472E0 2SB647	Q711, Q712 HT407162A0 2SD716	Q713, Q714 HT206862A0 2SB686	Q801 HC38915090 NJM7815A	QA01 HC10041030 LA1240	QX01 HC10098030 LB1413	D301～D304 D705, D706 DK01 HD20001000 IS2473, IS1555 ··· etc ···	D701, D702 HV00006120 MV203	D703, DK02 HD30006020 MA1062	D801 HD20008290 S4VB	D802, D803 HD20015030 DS135	D804 HD30012020 MA115CM	DX51, DZ01 H110025030 SLP-251B	DX52～DX55 H110014030 SLP-151B

VOLTAGE NOTE (—V) = SIGNAL 60dB INPUT ONLY
—V = NO SIGNAL ONLY

PW00 JW01 JW02 WW01 J704
RW01 330 (1/2W)
RW02 330 (1/2W)

Q101 2SK55 (D)

Q102, Q103 2SC829(C)
Q705, Q706 2SC2631
Q701～Q704 2SA992

Q201, Q203, Q205
Q715, Q716, QK01～QK04 2SC2785

Q707, Q708 2SD667
Q709, Q710 2SB647

Q711, Q712 2SD716
Q713, Q714 2SB686

Q801 NJM7815A
1. INPUT
2. GND
3. OUTPUT

TOP VIEW
Q401 LA6458D

FRONT VIEW
QX01 LB1413

TOP VIEW
HA11225
Q202
AN7470
Q301
LA1240
QA01

Lch
E
E
Rch
J701
C723 0.0022
C724 0.0022
Lch Idle 6.3mA
Rch Idle 7.0mA

DC 15V
J801
C801 4700/42V
C802 4700/42V
C803 0.01(250V)

PY00
AM RY01 150
FM RY02 150
PHONO RY03 150
CD / AUX
TAPE MONITOR RY04 150
JY01 JS03 JS02 WY01 WE04 To JE04

PX50
TUN DX51
ST. DX52 RX51 2.2k
SG.1 DX53
SG.2 DX54
SG.3 DX55 (11.6V)
JX01 JX51 WX51

PV00
VOLUME RV01 100k(B) x 2
JV01 WE02 To JE02

PE00
SE01 SE02
To JS02 To JV01

PZ00
DZ01 10.4V

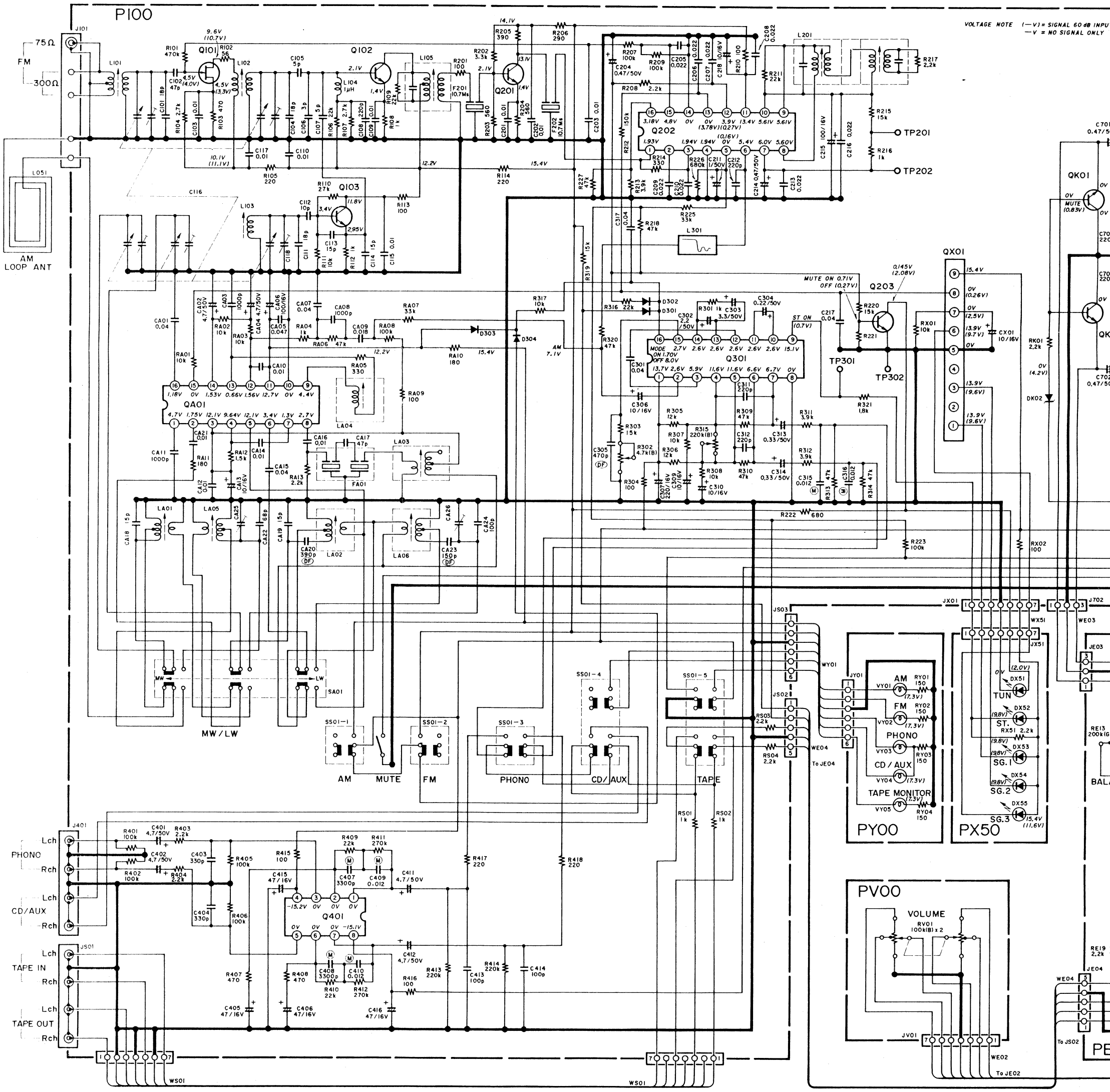
PU00
SU01 CU01 0.01(250V)
J091 J093 W001 AC IN
L001 F001 J001 JU01 JU02

JE03 JE02 JE04 WE03 WE01 WE02 WE04
JX02 J702 J703
WZ01 WZ02
J803 J804 J802 J805 J806

BALANCE RE13 200k(G)
TREBLE RE03 120k RE07 5.6k CE01 0.1/50V
BASS RE02 2.7k RE05 100k(C) x2 RE04 120k RE08 5.6k CE02 0.1/50V CE04 0.015
RE11 10k RE12 10k RE10 1.5k RE06 100k(C) x2 CE05 0.0022 CE06 0.0022 CE07 1.5k CE08 0.022 CE09 0.056 CE10 0.056
RE19 2.2k RE20 2.2k RE17 27k RE18 27k CE11 1000p CE12 1000p
RE01 2.7k CE03 0.015 CE09 0.022

Components and wiring are subject to change for modification without notice.

Q101	Q102,Q103	Q201,Q203,Q205	Q202	Q301	Q401	Q701~Q704	Q705,Q706	Q707,Q708	Q709,Q710	Q711,Q712	Q713,Q714	Q801	QA01
HF20055ID0	HT30829IC0	QK01 ~ QK04	HC10033010	HC10046020	HC10105030	HT10992IF0	HT32631I2C0	HT406672E0	HT206472E0	HT407162A0	HT206862A0	HC38915090	HC1004
2SK55(D)	2SC829(C)	Q715,Q716	HA11225	AN7470	LA6458D	2SA992	2SC2631	2SD667	2SB647	2SD716	2SB686	NJM7815A	LA1240
		HT32785IF0											
		2SC2785											



NOTE ON SAFETY:

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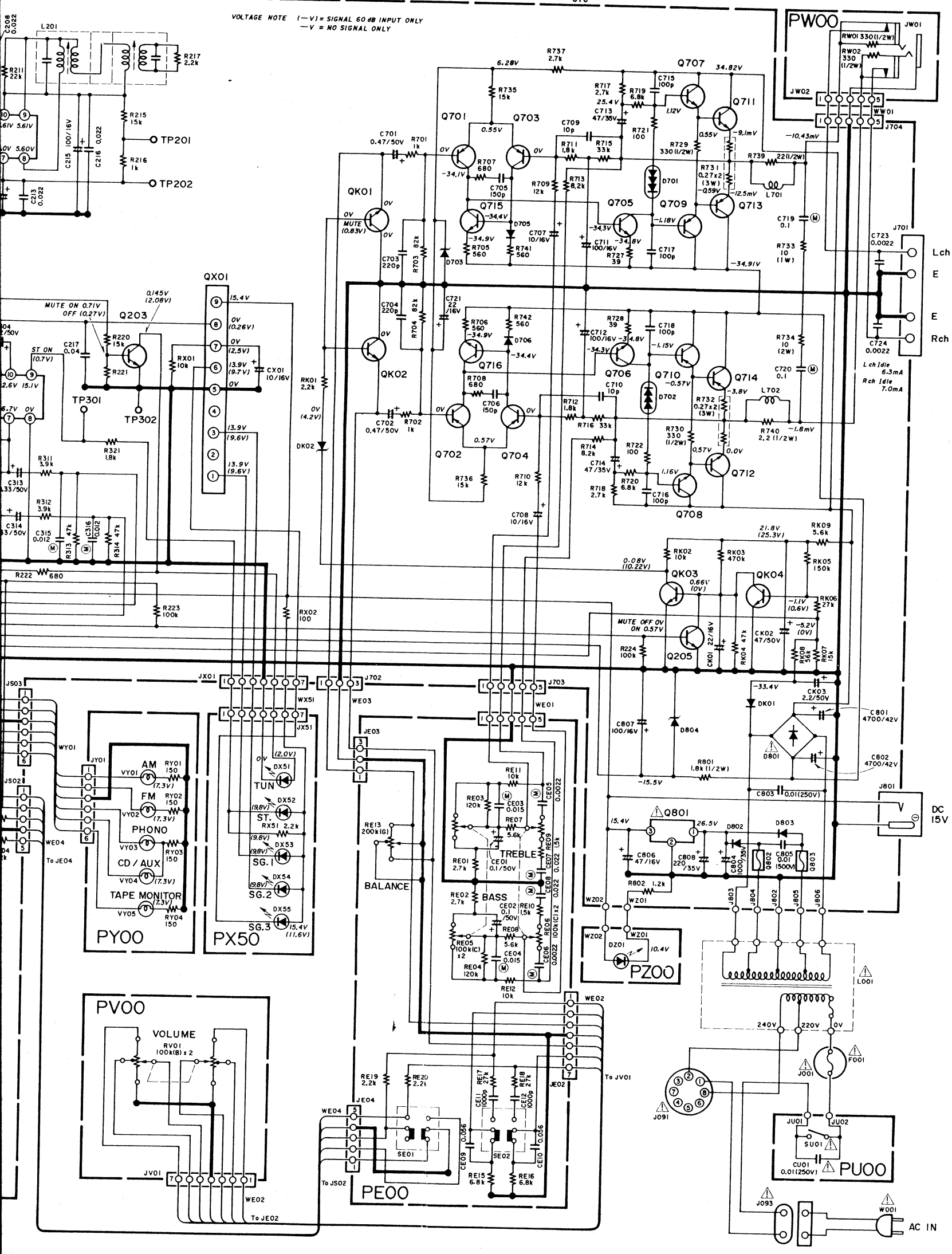
MODEL SR140L

Q709, Q710	Q711, Q712	Q713, Q714	Q801	QA01	QX01	D301～D304 D705, D706 DK01 HD20001000 IS2473, IS1555 ···etc···	D701, D702	D703, DK02	D801	D802, D803	D804	DX51, DZ01	DX52～DX55
HT206472E0 2SB647	HT407162A0 2SD716	HT206862A0 2SB686	HC38915090 NJM7815A	HC10041030 LA1240	HC10098030 LB1413		HV00006120 MV203	HD30006020 MA1062	HD20008290 S4VB	HD20015030 DS135	HD30012020 MA115CM	HI10025030 SLP-251B	HI10014030 SLP-151B



2SK55 (D)
Q101

① 2SC829(C)
Q102, Q103
2SC2631
Q705, Q706
② 2SA992
Q701～Q704

2SC2785
Q201, Q203, Q205
Q715, Q716, QK01～QK04

① 2SD667
Q707, Q708
② 2SB647
Q709, Q710

① 2SD716
Q711, Q712
② 2SB686
Q713, Q714

NJM7815A
Q801
1. INPUT
2. GND
3. OUTPUT

TOP VIEW
LA6458D
Q401

FRONT VIEW
LB1413
QX01

TOP VIEW
HA11225
Q202
AN7470
Q301
LA1240
QA01

Components and wiring are subject to change for modification without notice.